

SHADAB KN.

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GITHUB: <https://github.com/DRSH-KN>

BLOG: <https://scienceinmyroom.blogspot.com/>

EXPERIENCE

CIPHERBITZ IT SOLUTIONS

Python Intern

Hubli, Karnataka

Sep, 2022 - Dec, 2022

- Independently designed and executed the entire software infrastructure using Python, integrating PyQt5 for the Graphical User Interface (GUI) with Django and Flask.
- Orchestrated the seamless integration of an Arduino-based RFID scanner system into the software, alongside interfacing with weigh scales and managing databases using SQL and PHP.
- Actively engaged with clients to gather requirements and implemented requested changes throughout the project lifecycle, ensuring alignment with client objectives. Led efforts to automate and digitize shipment verification processes, resulting in a remarkable 40% increase in efficiency and productivity within industrial settings.
- Developed 4 Python- Arduino interface APIs for multiple IOT based projects, with cross C++ and python libraries on serial and Bluetooth communications. Developed algorithms to process and smoothen sensor data from hardware sensors.
- Demonstrated exceptional project management skills, overseeing end-to-end development while maintaining open communication channels to address client needs and project milestones effectively.

PERSONAL PROJECTS

1. WEATHER ECONOMICS ANALYSIS USING AI, ML & DATA SCIENCE

- Developed analytical models on the greenhouse emission dataset for marginal abatement cost & mitigation potential, immigration, carbon emission intensity and electricity access.
- Developed across Keras, Pandas, Scikit-Learn and Statsmodels, and analyzed regression models on the data, across 80% accuracy for predictive throughput.

2. OPENCV BASED SELF DRIVING CAR USING PIXEL SUMMATION ALGORITHM

- Developed an self-driving robotic vehicle using Arduino C++ & RaspberryPie, which detects lane with 480x240 pixel density frame image of camera.
- The software comprises basic image transformation and pre-processing functions that delivers to a robust algorithm of pixel summation, which showed an accuracy of 93%.

3. 3D HEAD BASED NAVIGATION SYSTEM FOR BLIND USING HAPTIC FEEDBACK

- Developed with my team as university final year project, "HeadNav" is a Haptic Feedback based navigation system for blind, which can detect objects 180 deg, developed across Arduino based C++.
- The vibration motors created a pattern-based input for the user to detect pathway, with increase reaction time by 70% and reliability to 80% users.

SKILLS

PYTHON • MACHINE LEARNING • ARTIFICIAL INTELLIGENCE • DATA ANALYSIS • DATA VISUALIZATION • STATISTICS • COMPUTER VISION • PANDAS • DJANGO • TENSORFLOW • OPENCV • KERAS • PYTORCH • PYQT5 • FLASK • HTML +CSS • SCIKIT-LEARN • DATA STRUCTURES & ALGORITHMS • C++

EDUCATION

KLS GOGTE INSTITUTE OF TECHNOLOGY

Bachelor of Engineering (B.E), Information Science & Engineering

CGPA: 8.49

Belagavi, Karnataka

Aug, 2019- Sep, 2023

ADDITIONAL INFORMATION

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